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PTO/SB/05 (11-00)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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# UTILITY PATENT APPLICATION TRANSMITTAL

Attorney Docket No. 112025-0458

First Inventor Kenneth H. Potter et al.

Title SCHEDULING ASSIST FOR DATA NETWORKING PACKET  
DEQUEUEING IN A PARALLEL 1-D SYSTOLIC ARRAY  
SYSTEM

Express Mail Label No. EL 705606706 US

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 40]  
(preferred arrangement set forth below)
  - Descriptive title of the invention
  - Cross References to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the invention
  - Brief Summary of the invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C.113) [Total Sheets 16]
5. Oath or Declaration [Total Pages 2]
  - a. ☒ Newly executed (original or copy)
  - b. ☐ Copy from a prior application (37 CFR 1.63 (d))  
(for a continuation/divisional with Box 18 completed)
  - i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s)  
named in the prior application, see 37 CFR  
1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

## ADDRESS TO:

Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

7. ☐ CD-ROM or CD-R in duplicate, large table or  
Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)
  - a. ☐ Computer Readable Form (CRF)
  - b. Specification Sequence Listing on:
    - i. ☐ CD-ROM or CD-R (2 copies); or
    - ii. ☐ paper
  - c. ☐ Statements verifying identity of above copies

## ACCOMPANYING APPLICATIONS PARTS

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☐ 37 C.F.R. §3.73(b) Statement ☐ Power of  
(when there is an assignee) Attorney
11. ☐ English Translation Document (if applicable)
12. ☒ Information Disclosure ☐ Copies of IDS  
Statement (IDS)/PTO-1449 Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
16. ☒ Nonpublication Request under 35 U.S.C. 122  
(b)(2)(B)(i). Applicant must attach form PTO/SB/35  
or its equivalent.
17. ☐ Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No: \_\_\_\_ /  
Prior application information: Examiner \_\_\_\_ Group / Art Unit: \_\_\_\_

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 17. CORRESPONDENCE ADDRESS

☒ Customer Number or Bar Code Label

(Insert Card)



(if here)

or ☐ Correspondence address below

|         |  |           |                |          |                |
|---------|--|-----------|----------------|----------|----------------|
| Name    | Charles J. Barbas                            |           |                |          |                |
| Address | Cesari and McKenna<br>88 Black Falcon Avenue |           |                |          |                |
| City    | Boston                                       | State     | MA             | Zip Code | 02210          |
| Country | U. S. A.                                     | Telephone | (617) 951-2500 | Fax      | (617) 951-3927 |

|                   |                   |                                   |                  |
|-------------------|-------------------|-----------------------------------|------------------|
| Name (Print/Type) | Charles J. Barbas | Registration No. (Attorney/Agent) | 32,959           |
| Signature         |                   | Date                              | October 24, 2001 |

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# FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

## Complete if Known

|                      |                          |
|----------------------|--------------------------|
| Application Number   | Not yet assigned         |
| Filing Date          | October 24, 2001         |
| First Named Inventor | Kenneth H. Potter et al. |
| Examiner Name        | Not yet assigned         |
| Group Art Unit       | Not yet assigned         |
| Attorney Docket No.  | 112025-0458              |

TOTAL AMOUNT OF PAYMENT (\$) 1,116

## METHOD OF PAYMENT

1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:

Deposit Account Number 03-1237  
Deposit Account Name Cesari and McKenna, LLP

☒ Charge Any Additional Fee Required Under 37 C.F.R. §§1.16 and 1.17

☐ Applicant claims small entity status. See 37 CFR 1.27

2. ☒ Payment Enclosed:  
☒ Check ☐ Credit card ☐ Money Order ☐ Other

## FEE CALCULATION

### 1. BASIC FILING FEE

| Large Entity | Small Entity | Fee Code | Fee (\$) | Fee Code | Fee (\$) | Fee Description        | Fee Paid |
|--------------|--------------|----------|----------|----------|----------|------------------------|----------|
|              |              | 101      | 740      | 201      | 370      | Utility filing fee     | 740      |
|              |              | 106      | 330      | 206      | 165      | Design filing fee      |          |
|              |              | 107      | 510      | 207      | 255      | Plant filing fee       |          |
|              |              | 108      | 740      | 208      | 370      | Reissue filing fee     |          |
|              |              | 114      | 160      | 214      | 80       | Provisional filing fee |          |
| SUBTOTAL (1) |              |          |          |          |          |                        | 740      |

### 2. EXTRA CLAIM FEES

| Total Claims       | Extra Claims | Fee from below | Fee Paid |
|--------------------|--------------|----------------|----------|
| 34                 | 20**         | 14             | 252      |
| Independent Claims | 4            | 3**            | 84       |
| Multiple Dependent |              |                | 0        |

| Large Entity | Small Entity | Fee Code | Fee (\$) | Fee Code | Fee (\$) | Fee Description   | Fee Paid |
|--------------|--------------|----------|----------|----------|----------|---|----------|
|              |              | 103      | 18       | 203      | 9        | Claims in excess of 20                                    |          |
|              |              | 102      | 84       | 202      | 42       | Independent claims in excess of 3                         |          |
|              |              | 104      | 280      | 204      | 140      | Multiple dependent claim, if not paid                     |          |
|              |              | 109      | 84       | 209      | 42       | **Reissue independent claims over original patent         |          |
|              |              | 110      | 18       | 210      | 9        | **Reissue claims in excess of 20 and over original patent |          |
| SUBTOTAL (2) |              |          |          |          |          |   | 336      |

\*\*or number previously paid, if greater; For Reissues, see below

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity Small Entity

| Fee Code | Fee (\$) | Fee Code | Fee (\$) | Fee Description  | Fee Paid |
|----------|----------|----------|----------|--|----------|
| 105      | 130      | 205      | 65       | Fee Surcharge - late filing fee or oath                                    |          |
| 127      | 50       | 227      | 25       | Surcharge - late provisional filing fee or cover sheet                     |          |
| 139      | 130      | 139      | 130      | Non-English Specification  |          |
| 147      | 2,520    | 147      | 2,520    | For filing a request for ex parte reexamination                            |          |
| 112      | 920      | 112      | 920*     | Requesting publication of SIR prior to Examiner action                     |          |
| 113      | 1,840    | 113      | 1,840*   | Requesting publication of SIR after Examiner action                        |          |
| 115      | 110      | 215      | 55       | Extension for reply within first month                                     |          |
| 116      | 400      | 216      | 200      | Extension for reply within second month                                    |          |
| 117      | 920      | 217      | 460      | Extension for reply within third month                                     |          |
| 118      | 1,440    | 218      | 720      | Extension for reply within fourth month                                    |          |
| 128      | 1,960    | 128      | 980      | Extension for reply within fifth month                                     |          |
| 119      | 320      | 219      | 160      | Notice of Appeal   |          |
| 120      | 320      | 220      | 160      | Filing a brief in support of an appeal                                     |          |
| 121      | 280      | 221      | 140      | Request for oral hearing   |          |
| 138      | 1,510    | 138      | 1,510    | Petition to institute a public use proceeding                              |          |
| 140      | 110      | 240      | 55       | Petition to revive - unavoidable   |          |
| 141      | 1,280    | 241      | 640      | Petition to revive - unintentional   |          |
| 142      | 1,280    | 242      | 640      | Utility Issue fee (or reissue)   |          |
| 143      | 460      | 243      | 230      | Design Issue fee   |          |
| 144      | 620      | 244      | 310      | Plant Issue fee  |          |
| 122      | 130      | 122      | 130      | Petitions to the Commissioner  |          |
| 123      | 50       | 123      | 50       | Processing fee under 37 CFR 1.17(q)  |          |
| 126      | 180      | 126      | 180      | Submission of Information Disclosure Stmt                                  |          |
| 581      | 40       | 581      | 40       | Recording each patent assignment per property (times number of properties) | 40       |
| 146      | 740      | 246      | 370      | Filing a submission after final rejection (37 CFR 1.129(a))                |          |
| 149      | 740      | 249      | 370      | For each additional invention to be examined (37 CFR 1.129(b))             |          |
| 179      | 740      | 279      | 370      | Request for Continued Examination (RCE)                                    |          |
| 169      | 900      | 169      | 900      | Request for expedited examination of a design application                  |          |

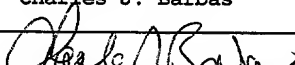
Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) 40

## SUBMITTED BY

## Complete (if applicable)

|                   |   |                                   |                  |           |                |
|-------------------|---|-----------------------------------|------------------|-----------|----------------|
| Name (Print/Type) | Charles J. Barbás   | Registration No. (Attorney/Agent) | 32,959           | Telephone | (617) 951-2500 |
| Signature         |  | Date                              | October 24, 2001 |           |                |

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re The Application of: )  
Kenneth H. Potter et al. )  
Serial No.: Not yet assigned ) Examiner: Not yet assigned  
Filed: October 24, 2001 )  
For: SCHEDULING ASSIST FOR DATA ) Art Unit: Not yet assigned  
NETWORKING PACKET DE- )  
QUEUEING IN A PARALLEL 1-D )  
SYSTOLIC ARRAY SYSTEM )  
Cesari and McKenna, LLP  
88 Black Falcon Avenue  
Boston, MA 02210  
October 24, 2001

**EXPRESS-MAIL DEPOSIT**

“Express Mail” Mailing-Label Number: EL 705606706 US

The following papers are being deposited with the United States Postal Service  
“Express Mail Post Office to Addressee” service pursuant to 37 C.F.R. §1.10:

X Patent Application ( 40 pages including 34 claims )  
X Oath or Declaration X Fee Transmittal Letter  
X Utility Patent Application Transmittal Letter X Assignment With Recordation Form  
X Formal Drawings ( 16 sheets ) X Check in the amount of \$1,116.00  
X Information Disclosure Statement X PTO-1449 and Copies of References  
X Request and Certification Under 35 U.S.C. 122 (b)(2)(B)(i)  
X Return Receipt Postcard

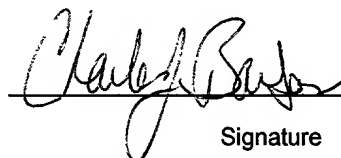
**REQUEST AND CERTIFICATION  
UNDER  
35 U.S.C. 122(b)(2)(B)(i)**

|                      |   |  |
|----------------------|---|--|
| First Named Inventor | Kenneth H. Potter et al.  |  |
| Title                | SCHEDULING ASSIST FOR DATA NETWORKING PACKET<br>DEQUEUEING IN A PARALLEL 1-D SYSTOLIC ARRAY<br>SYSTEM |  |
| Atty Docket Number   | 112025-0458   |  |

I hereby certify that the invention disclosed in the attached application **has not and will not be** the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 122(b).

October 24, 2001

Date



Signature

Charles J. Barbas, Reg. No 32,959

Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**

**Burden Hour Statement:** This collection of information is required by 37 CFR 1.213(a). The information is used by the public to request that an application not be published under 35 U.S.C. 122(b) (and the PTO to process that request). Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This form is estimated to take 6 minutes to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

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